

**GUIDELINES FOR SUBMISSION OF TURFGRASS SAMPLES**

1. To diagnose turfgrass problems, we need **at least a 6" x 6" piece of the turf**, including the root system and soil. If using a golf course cup cutter, please send at least 2 plugs.
2. Collect samples from the border between healthy and diseased turf, so that 2/3 of the sample is diseased and 1/3 is healthy.
3. Wrap the soil and roots in aluminum foil to keep the soil from shaking loose during transit.
4. **DO NOT store or transport the samples in plastic bags.** Instead, place the samples in a cardboard box, and stuff it with newspaper or other packing material to hold the samples in place.
5. Download and print the Plant Disease and Insect Clinic sample submission form from the clinic website: <http://www.ces.ncsu.edu/depts/ent/clinic/Submit/submit.htm>
6. Please fill out the sample submission form **completely and legibly**. Describe the symptoms you are observing as accurately as possible. All of the information requested on the form is needed to make an accurate diagnosis.
7. **List all fertilizer, fungicide, herbicide, and insecticide applications made in the last 30 days.** Also, list any major cultural practices (aerification, topdressing, etc.) conducted in the last 30 days. These practices have a major impact on disease and insect development, and provide valuable clues that will help us make an accurate diagnosis.
8. **We now accept digital images along with physical samples.** Pictures of the symptoms from a distance of 6 feet or more are very useful for diagnosis of disease and insect problems. Close-up pictures, from a distance of less than 2 feet, are usually not helpful. Public users can send images that correspond to a physical sample via email to [lee\\_butler@ncsu.edu](mailto:lee_butler@ncsu.edu). *CES agents* can log in using their Unity ID and send images at: <http://www.ces.ncsu.edu/depts/ent/clinic/UploadImages.htm>.
9. Send the sample and submission form to the Plant Disease and Insect Clinic by overnight mail or state courier using the following address:

**Address for US mail, UPS and FedEx:**

Plant Disease and Insect Clinic  
Campus Box 7211  
1227 Gardner Hall  
100 Derieux Place  
North Carolina State University  
Raleigh, NC 27695-721

**State Courier Address**

Plant Disease and Insect Clinic  
Campus Box 7211 NCSU  
Raleigh, NC  
STATE COURIER: 53-61-21

**Fee Structure:**

\$100.00: All out-of-state samples  
\$ 50.00: All in-state golf turf samples  
\$ 20.00: All other in-state samples  
\$ 10.00: In-state samples submitted by  
Coop. Ext. Service, NCSU, NCDA  
personnel and non-profit agencies  
(Golf turf excluded)

**\*Make checks payable to NCSU**





Clinic Sample #: \_\_\_\_\_

**MANAGEMENT INFORMATION**

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Please list ALL fertilizer, fungicide, herbicide, and insecticide applications made in last 30 days:

Date	Product	Rate (per 1000 sq ft)	Date	Product	Rate (per 1000 sq ft)
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Please list any cultural practices (other than mowing, irrigation, and fertilization) performed in last 30 days:

Date	Description	Rate, size, etc.	Date	Description	Rate, size, etc.
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

**CLINIC USE ONLY – do not write below this line**

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Sample condition (check all that apply):  Soil on Foliage  No roots  No soil  No foliage  Inad. roots  Inad. soil  Inad. foliage  Rotten  Too dry  Dead  Mashed

Form (check all that apply):  Illegible  Incomplete  No contact information  No agent name  Dirty/wet

Referral:  Entomology  Chemical injury  Weed ID  Plant ID  Nematode assay  Soil analysis  Plant analysis

#1 \_\_\_\_\_ #2 \_\_\_\_\_ #3 \_\_\_\_\_ #4 \_\_\_\_\_ #5 \_\_\_\_\_

pH:                      pH:                      pH:                      pH:                      pH:

SS:                      SS:                      SS:                      SS:                      SS:

**Diagnosis:**